City of Baton Rouge and East Baton Rouge Parish MORTH LANDFILL ZACHARY, LOUISIANA

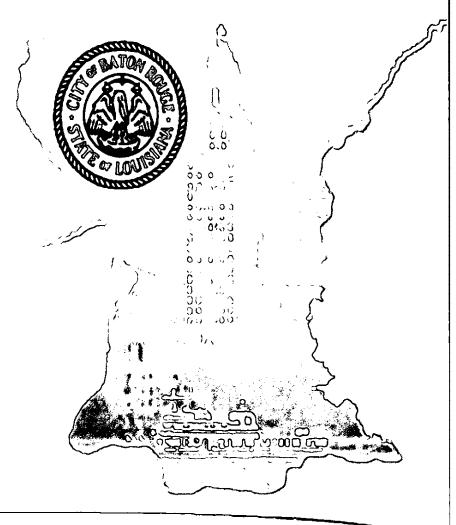
MAJOR PERMIT MODIFICATION

STANDARD TYPE I. III, III-A PERMIT

£ 10-033-2885 € £ 10-033-2885

Againg Lanais 31128

Standard Pormin Number: P-0269R1



Proposed by

City of Baton Rouge and Parish of East Baton Rouge

July 2006



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO GOVERNOR

MIKE D. McDANIEL, Ph.D. SECRETARY

HOY 28 2006

CERTIFIED MAIL 7003 2260 0005 9326 7576

Mr. Jorge M. Ferrer, P.E. Department of Public Works P.O. Box 1471 Baton Rouge, LA 70821

RE:

Notice of Technical Completeness

East Baton Rouge Parish North Landfill

Permit Modification (Change in Operating Hours)

AI# 31128/ D-033-2885/ P-02691R1

East Baton Rouge Parish

Dear Mr. Ferrer:

The Permits Division is in receipt of the finalized copies of your permit modification request dated July 6, 2006. After review of these documents, we have determined that your application is technically complete and ready for public review.

The Environmental Assistance Division will distribute copies of your modification request for public review and place public notices in the appropriate newspapers in accordance with LAC33:VII.513.F.3. Please contact Ms. Soumaya Ghosn at (225) 219-3276 for the date of publication of the public notice and the dates for the comment period. At the conclusion of the comment period, the Permits Division will consider all comments and render a permit decision regarding your modification request.

Please reference your Site Identification Number (D-033-2885), Agency Interest Number (AI# 31128), Permit Number (P-02691R1), and Activity Number (PER20060001) on all future correspondence pertaining to this facility. If you have any questions concerning this matter, please contact Ms. Enjoli' Muse of the Permits Division at (225) 219-0968.

Sincerely,

Bijan Sharafkhani, P.E.

Administrator

em

C: Capital Regional Office

COPY

original to <u>IOSW</u>

SW/G1/To

AVG A± 31128

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- 1. City-Parish's Originally Submitted Application
- 2. LaDEQ Request for Additional Information
- 3. City-Parish's Response to LaDEQ Request for Additional Information
- 4. LaDEQ Administrative Completeness Determination and Public Notice of Publication
- 5. City-Parish's Proof of Publication
- 6. LaDEQ Notice to Submit Final Documentation



LDEQ



Department of Public Works

City of Baton Rouge Parish of East Baton Rouge

Post Office box 1471 Baton Rouge, Louisìana 70821-1471 Jorge M. Ferrer, P.E. Environmental Coordinator

Telephone (225) 389-5456 Fax (225) 389-5460

July 6, 2006

Dr. Chuck Carr Brown
Assistant Secretary
Louisiana Department of Environmental Quality
P.O. Box 4313
Baton Rouge, LA 70821-4313

Re: Request for Change of Operating Hours East Baton Rouge Parish North Landfill A131128 / D-033-2885 / P-02691R1

Dear Dr. Brown,

Enclosed is the request for a permit modification and the required processing fee. Our request is to change the facility's hours of operation, which is considered a major modification to our existing permit under the State of Louisiana Solid Waste Regulations.

Your usual cooperation in this matter is greatly appreciated.

Sincerely,

Jorge M. Ferrer, P.E.

Coordinator of Environmental & Landfill Affairs City Baton Rouge / Parish of East Baton Rouge

Department of Public Works

JMF:gkc

LDEQ-EDMS Document 35501377, Page 7 of 35

INTRODUCTION

This permit modification is submitted to the Louisiana Department of Environmental Quality (LDEQ) by the City of Baton Rouge and the Parish of East Baton Rouge (City-Parish) for the East Baton Rouge Parish North Sanitary Landfill (North Landfill). The North Landfill is located at 16001 Samuels Road, Zachary. LA, 70791, approximately ten miles north of downtown Baton Rouge, Louisiana in East Baton Rouge Parish. At this location, the City-Parish owns a solid waste landfill for the disposal of residential, industrial, and commercial wastes and water treatment sludge. The site owned by the City-Parish consists of approximately 415 acres. The permitting information for this facility is Site Number: D-033-2885; Standard Permit Number: P-0269R1; and Agency Interest: 31128.

This document is to modify the solid waste permit for the North Landfill to change the landfill operating hours. As modified, the North Landfill will operate from 5:30 AM until 5:00 PM, Monday through Friday and 5:30 AM until 3:00 PM on Saturday.

This document has been prepared in accordance with the permit modification requirements of LAC 33:VII:§517. Proposed changes are presented in the section identified as "Proposed Changes".

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PROPOSED CHANGES

City of Baton Rouge / Parish of East Baton Rouge NORTH LANDFILL

STANDARD TYPE I, II, II-A PERMIT

Site Number: D-033-2885

Standard Permit Number: P-02691R1

Agency Interest: 31128

Proposed Change:

Change operating hours from 7:00 AM until 5:00 PM, Monday through Friday, and 7:00 AM until 3:00 PM on Saturday to 5:30 AM until 5:00 PM, Monday through Friday, and 5:30 AM until 3:00 PM on Saturday.

Reason for Change:

The City-Parish has experienced rapid and extensive growth in the aftermath of Hurricanes Katrina and Rita (2005). The extended operating hours will;

- a) Allow more time for garbage and trash to be collected due to population growth,
- b) Shift collection times outside of peak traffic periods and provide more time for transportation during high traffic congestion,
- c) Enhance the City-Parish collection service to the parish residents.

Additional Request:

The City-Parish will change operating hours, as needed, only on a temporary basis. Such change may be due to natural disaster, extended weekends involving holidays, and/or public events that require a short turnaround for the Solid Waste Contractor. In each case, LDEQ will be notified, in writing, of the temporary change and the reason for such a change in the operating hours of the facility.



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO GOVERNOR

MIKE D. McDANIEL, Ph.D. SECRETARY

JUL 1 2 2006

Agency Interest No. 31128 Permit Number P-0269 Activity No. PER20060001

Mr. Jorge M. Ferrer Department of Public Works City of Baton Rouge P. O. Box 1471 Baton Rouge, LA 70821-1471

RE: East Baton Rouge Parish North Landfill Application Request for Additional Information

Dear Mr. Ferrer:

Your solid waste permit modification application for East Baton Rouge Parish North Landfill was received on July 11, 2006, and has been reviewed. The attached list of items must be received in order to proceed with the permit application process. Please submit the requested information in triplicate within thirty (30) days of receipt to:

Robert L. Nissen

Application Verification Group Environmental Assistance Division Office of Environmental Services Post Office Box 4313 Baton Rouge, LA 70821-4313

If you have any questions, please call me at (225) 219-3286. Thank you for your attention to this matter.

Sincerely,

Robert Nissen

Environmental Project Specialist III Application Verification Group

Mr Illini

RN/m

Attachment

c: IO-SW

ENVIRONMENTAL SERVICES

: PO BOX 4313, BATON ROUGE, LA 70821-4313 P:225-219-3181 F:225-219-3309 WWW.DEQ.LOUISIANA.GOV



ADMINISTRATIVE COMPLETENESS CHECKLIST

SOLID WASTE PERMIT MAJOR MODIFICATION

Please provide the inform	nation marked with an XX
	Application review fee
	LAC 33 Part VII 525
	Documentation that details the proposed modification and the effects of the
	modification on the environment/operation (including financial)
	LAC 33 Part VII.517.A.1.a,
	Four copies of the application submitted
	LAC 33 Part VII 517.1.a
xx	Completed 1701 addendum
	LAC 33 Part 1 1701
	http://www.deq.state.la.us/permits/1701Addendum.pdf
	Proof of registration with the Secretary of State (if needed for 1701
	addendum)
	LAC 33 Part I 1701
	http://www.sec.state.la.us/crpinq.htm
	Qualified third party opinion that activity is beneficial reuse (If Required)
	LAC 33 Part VII 1103.B
XX	Part III environmental impact statement "I.T. questions"
	LAC 33 Part VII 523.A-E

Administrative Completeness Checklist Solid Waste Permit Major Modification Revision 0-01/22/2003

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY Addendum to Permit Applications per LAC 33:I.1701

Introduction

This Addendum to Permit Applications provides information to the Permits Division which is used to comply with the requirements of LAC 33:I.1701 — Requirements for Obtaining a Permit. Authority to ask for this information is contained in the Louisiana Administrative Code, Title 33. Copies of this law are available from the Regulation Development Section of the Office of Environmental Assessment, or on the Internet at:

http://www.ldeg.org/planning/regs/title33/index.htm

Who Should Submit an Addendum to Permit Applications?

The Addendum to Permit Applications should be submitted for any permit application submitted for a new source and for all permit actions, including renewals and changes of ownership. Air permit modification requests are exempt from this requirement unless they include, or are limited to, a change of ownership.

What If I Previously Sent an Addendum to Permit Applications to DEQ?

You must submit this addendum with each permit application, as stated above. It is acceptable to submit a copy of a previously submitted form, if the original signature date is not more than twelve months old. Indicate the original submittal date and the permit number for which it was previously submitted. Please review the information to ensure that it is still correct.

What You Should Submit and What You Should Keep

Route the original and two photocopies to this agency. For Part 70 Air Permit applications, a copy should be submitted directly to EPA's Dallas office -- EPA Region 3 (6PD-R), 1445 Ross Avenue, Suite. 1200, Dallas TX 75202-2733.

Acceptable Answers

"NA" is not an acceptable answer. If a particular section does not apply to you, explain why. Please attach additional sheets for the required information. The Department may require the submission of additional information if it deems such information necessary.

General

Do not write information in the top or left side margin of this form as file folder bindings may cover the information.

Step-by-Step Instructions

1 Media Type

Indicate whether this is for a Solid Waste, Air, Water, Hazardous Waste or Radiation Licensing application.

2 Agency Interest Number

If blank, type or print the Agency Interest Number in the space provided at the top of each page (if known); otherwise, leave blank.

3 Indicate if Copy of Previously Submitted Form

Indicate whether or not this is a copy of a previously submitted form. If yes, indicate the original submittal date and the permit number for which it was previously submitted. You may not submit a copy which has an original signature date that is more than twelve months old

4 Company Name, Parent Company, Plant Name and Location

If blank, type or print the name of the company, the name of its parent, the name of the plant, if any, the parish where the plant is located, and the closest town in the same parish as the facility. Check the appropriate box to indicate if the permittee is the owner or operator of the facility.

5 List of States With Similar Actions

Please provide a list of the states where you, as applicant, have federal or state environmental permits identical to, or of a similar nature to, the permit for which you are applying.

6 Outstanding Fees

Do you owe any outstanding fees or final penalties to the Department? If so, please explain.

7 Registration with Secretary of State

If your company is a corporation or a limited liability company, please provide proof of registration with the Secretary of State.

8 Responsible Official

Enter the name, address, and phone number of the responsible company official. Part 70 sources must meet the requirements of LAC 33.III.502 regarding the Responsible Official.

9 Certification by Responsible Official

An authorized company agent should sign and date the form confirming its accuracy and completeness.

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PERMIT APPLICATION REQUIREMENTS DUE TO THE "IT" DECISION

The Louisiana Supreme Court previously handed down a ruling, on the permit application for a proposed hazardous waste facility, which had a direct impact on permit applications for all Divisions of the Louisiana Department of Environmental Quality has the Constitutional responsibility to act as a Public Trustee for protecting the State's natural resources and environment from pollution. According to the Court, these responsibilities require the Department to go beyond its rules and regulations "to see that the environment would be protected to the fullest extent possible consistent with the health, safety and welfare of the people".

Under the "IT" decision, before any permit can be issued, the Department must consider alternative projects, alternate sites or mitigation measures, and qualify the environmental costs and weigh them against the social and economic benefits of the project. In order to make these decisions, the Department determined that it was necessary to require that all permit applications include sufficient information from which the requirements imposed by the Court can be assessed.

Such information did not have to be in the form of or contain all information found in a federal environmental impact statement. Neither was there a requirement that such information be certified by a professional engineer or other expert (unless required by rule or regulation). However, there was to be sufficient information in the application to address the questions raised by the Court. Without the required information, an application was incomplete and was not acceptable for review.

The purpose of this part is to provide specific responses to a list of questions which the Department previously determined were to be addressed in all applications submitted for review to satisfy the above judicial ruling. The list of questions is not exhaustive and may be supplemented on a case by case basis according to the particular facts and circumstances presented. These questions appear also to have been integrated into the siting determination documentation required by LA Department of Environmental Quality Solid Waste Division May, 1988 Draft Rules and Regulations. This response has been segregated from the Siting Determination document to ensure the requirements of the "IT" Ruling are clearly satisfied.

Following is a list of the standard "IT" Ruling questions and their responses. To date, the review process has not identified additional questions which must be addressed.



Department of Public Works

City of Baton Rouge Parish of East Baton Rouge

Post Office box 1471 Baton Rouge, Louisiana 70821-1471

Jorge M. Ferrer, P.E. Environmental Coordinator

Telephone (225) 389-5456 Fax (225) 389-5460

CERTIFIED - RETURN RECEIPT REQUESTED

July 25, 2006

Mr. Robert L. Nissen

Application Verification Group Environmental Assistance Division Office of Environmental Services Department of Environmental Quality Post Office Box 4313 Baton Rouge, Louisiana 70821-4313

Re: East Baton Rouge Parish North Landfill Application

Agency Interest No.: 31128 P-0269 Permit Number: Activity No.:

PER20060001

Dear Mr. Nissen:

We have enclosed as per your request the following:

addendum to permit application, as per LAC 33:I.1701 a)

requirements due to the "IT" Decision, as per LAC 33:VII.523 A-E

Mr. Nissen, please let me know if we can be of further assistance.

Yorge M. Ferrer, P.E.

Coordinator of Environmental & Landfill Affairs

JMF:gkc attachments

Media Type (c	check one)	Agency Interest						
Hazardous Wa		Is this a copy of a	previously submitted form	? Yes ∐ No ∐				
Solid Waste	alid Waste X Water If yes, indicate the original submittal date:							
Radiation Lice	nsing 🗍	If yes, indicate th	e original permit number: _					
Departmen	nt of Environmental Quality Permits Division P.O. Box 4313	Addendum to	Permit Applica	tions	The Samuel			
Baton Rou	ge, LA 70821-4313		-	13/2	LDEQ TABLE			
	(225) 219-3181	LAC	C 33:I.1701					
L		L	XX Owner	For Permits Division U	Z 0352323.5 A. A.			
Please	Company Name	•						
Or	Type City of Baton Rouge and Or Operator							
Print								
- {	Plant name (if any)							
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	Zachary, LA	East Baton	Rouge Market	Significant descriptions	MARKET CAR HISTORY			
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statemen	ts, that based on informat	ion and belief formed a	after reasonable inquiry,	the statements	and			
informati	ion contained in this Add	endum to the Permit Ap	pplication, including all	attachments the	ereto are			
	urate, and complete.							
•	•							
	sponsible Official		City	State	Zip			
Name		,	Baton Rouge	LA	70821			
<u> </u>	Jorge M. Ferrer. P.I		Business phone		1.70021			
l meÇ	Coordinator of Envi	conmental and	(225) 389-5456					
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	City of Baton Rouge		Date - 25					
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LAC 33:VII.523

§523. Part III: Additional Supplementary Information

The following supplementary information is required for all solid waste processing and disposal facilities. All responses and exhibits must be identified in the following sequence to facilitate the evaluation:

- A. a discussion demonstrating that the potential and real adverse environmental effects of the facility have been avoided to the maximum extent possible;
- B. a cost-benefit analysis demonstrating that the social and economic benefits of the facility outweigh the environmental-impact costs;
- C. a discussion and description of possible alternative projects which would offer more protection to the environment without unduly curtailing nonenvironmental benefits;
- D. a discussion of possible alternative sites that would offer more protection to the environment without unduly curtailing nonenvironmental benefits; and
- E. a discussion and description of the mitigating measures which would offer more protection to the environment than the facility, as proposed, without unduly curtailing nonenvironmental benefits.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2001 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Solid Waste Division, LR 19:187 (February 1993), amended by the Office of Waste Services, Solid Waste Division, LR 23:1685 (December 1997).

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RESPONSES TO LAC 33:VII.523

(MAJOR PERMIT MODIFICATIONS DUE TO THE "IT DECISION")

A. Have the potential and real adverse environmental effects of the proposed facility been avoided to the maximum extent possible.

Yes, the entire site selection was designed to avoid the potential and real adverse environmental effects of the proposed facility to the maximum extent possible. The site selection process was a step process weighing negative and positive criteria to screen potential site disposal areas. Potential sites were further evaluated with site specific information to obtain an optimum landfill location using both engineering and environmental considerations.

The proposed project consists of a 200 acre solid waste landfill area situated on a 415 acre site. Non-landfill areas will include a 200 foot buffer zone around the entire site, a direct dump transfer station for small vehicles to avoid having many small vehicles on the landfill face, scalehouse to determine incoming waste quantities, administrative buildings, facilities, stormwater off-site maintenance structures, a separate drainage system for potentially contaminated stormwater, secondary treatment facilities for leachate, tertiary treatment facilities for all potentially contaminated water, a multi-use area for future resource recovery/recycle projects and a long entrance road from U. S. Highway 61 through a wooded area to the landfill entrance.

The landfill disposal area will be excavated to an elevation of 58-60 feet (sloped to provide drainage to a leachate collection pipe system). The bottom clay liners will consist of three feet of natural clay barrier of low permeability plus a three foot clay liner which will be excavated and recompacted under the direction of a professional geotechnical engineer to assure a permeability of 1 x 10⁻⁷ cm/sec or less. In addition, a final liner consisting of a 60 mil thick membrane of high density polyethylene (HDPE) will be laid directly on top of the clay liner. The use of a composite liner system (HDPE directly on clay) will form a very effective barrier to vertical migration of leachate from the landfill.

Solid waste will be placed in the smallest practicable area in two foot lifts, compacted and covered at the end of each working day. As each phase of the landfill is filled, a final cover consisting of a two foot recompacted clay cap (permeability 1 x 10⁻⁷ cm/sec or less) and a six inch vegetative layer will be installed. A phase will receive final cover approximately every two years. Paved entrance roads, a truck wash station, temporary litter fences, buffer area vegetation, a perimeter fence and regular litter patrols will prevent windblown litter from moving off the site.

Odors will be controlled by monitoring incoming waste, application of daily cover, carbon scrubbers on gas vents and adequate treatment facilities for water.

The proposed site was determined to have no known sensitive ecological areas or habitats for endangered species. The site is not located in a designated wetland as confirmed by the U. S. Army Corps of Engineers (letter in Appendix E of Permit Application). An existing permitted industrial solid waste disposal site is immediately adjacent to the proposed site and located on this same Kaiser Aluminum Chemical Corporation property.

An extensive geotechnical investigation was carried out on the site to evaluate subsurface soil conditions. The entire site is covered with virtually a continuous blanket of low permeability soils. The low permeability soils are underlain by a sand layer in the southern part of the site. Therefore, landfill cells have not been proposed for the southern area because planned excavation depths would reduce the amount of natural clay liner below the recompacted liner.

The site is not located in a flood prone area. The proposed location will not restrict the flow of base flood. It will not reduce the temporary water storage capacity of the floodplain or result in washout of solid waste, so as to pose a hazard to human life, wildlife, land or water resources.

The proposed sanitary landfill will not adversely impact any adjacent surface water. The NPDES point source discharge from the Tertiary Treatment Facility will be monitored and operated in compliance with permit requirements. The proposed landfill will create a discharge but will have little effect on the water quality of the adjoining drainage pathway.

The proposed site is not located in an aquifer recharge zone. No shallow drinking water source is being utilized in the area. The area is served by water from the City of Zachary municipal water system or by deep wells. The landfill facility will not impact land used for the production of food chain crops and will not threaten the safety of human health or the environment.

The potential environmental impacts from the proposed disposal facility will be carefully considered in the design and operating plan for the landfill. Where the potential for environmental impact from uncontrolled disposal practices exists, mitigating measures have been indicated and have been incorporated into the facility design. The geotechnical and engineering design of the landfill will meet or exceed the standards developed by the Department of Environmental Quality including liner, monitoring wells, leachate collection, leachate treatment and environmental control measures. In every area, the design of the facility will be conservative to protect the public health and the environment.

The adverse impact on residential areas has been minimized by locating the facility in an area already used for solid waste disposal and for chemical manufacture. The balance of the area is rural with extremely sparse residential use. However, residents still perceive a landfill as an objectionable feature and it is not expected that any site selected could mitigate local resistance.

In all respects the landfill has been designed to avoid the potential and real adverse environmental effects of a landfill facility to the maximum extent possible. The landfill design represents state of the art disposal facilities. Each feature or meetexceed current requlatory selected to In addition, several features not required by requirements. regulations have been incorporated (liner system, wastewater treatment, landscaping, slopes) which reduce the adverse environmental effects of the facility.

B. Does a cost benefit analysis of the environmental impact cost balanced against the social and economic benefits of the proposed facility demonstrate that the latter out weighs the former?

There is an urgent need to construct a new sanitary landfill. The current solid waste disposal facility, Devil's Swamp, is approaching its capacity. In addition, the Louisiana Department of Environmental Quality has ordered the facility to close by February 1, 1992 due to the adverse environmental conditions existing at Devil's Swamp which cannot be remedied due to locational characteristics and past practices at the site. The lead time required to design, finance, permit and construct a new facility require immediate action to provide a replacement facility.

The purpose of the proposed facilities is to reduce the environmental impact costs to the maximum practical extent. Once the proposed structures and procedures are in place, the environmental impact costs due to operation of the proposed sanitary landfill will be minimal. The problems associated with the potential for litter, fires, odors and contamination of surface and groundwater supplies will have been reduced to the maximum practical extent. The primary adverse environmental effect will be one of aesthetics. This is a temporary effect and will be eliminated as each area of the landfill is closed, covered with soil and planted with vegetation.

The social and economic benefits of the landfill are substantial. It is essential that a facility be provided for the safe, efficient disposal of refuse for City-Parish citizens. The absence of such a facility would either eliminate public collection of solid waste (with attendant adverse health and environmental effects) or require long

hauls to other landfill in the area at great expense to the City-Parish and all other governmental and private entities which would use the facility.

Substantial cost analyses were carried out as part of a study funded by the State of Louisiana to evaluate the best plan to meet the solid waste disposal needs of the entire parish in 1982 (Cox-Walker) and a study funded by the Parish in 1987 (Camp, Dresser & McKee) to again review and evaluate all available alternatives for solid waste disposal of East Baton Rouge Parish solid waste. (Appendix C)

The proposed landfill site was identified as having the least implementation and operating costs and the smallest associated environmental impact costs. All other alternative locations, technologies or project concepts were more costly to construct and operate as were their associated actions to mitigate environmental impacts.

The Camp, Dresser and McKee report concluded:

- Resource and energy recovery costs are much higher than landfill costs on a per ton basis and also on a net present value basis.
- East Baton Rouge will need to site a new landfill for the long term no matter what alternative it selects. Such a new site will give the Parish a long-term solid waste management solution meeting all rules and regulations.
- Continued landfilling for East Baton Rouge Parish provides the lowest cost alternative over the planning period through the year 2010.

The CDM study consisted of a screening process which considered the entire parish for potential landfill sites. Successive rough screens were applied to remove developed areas, environmentally sensitive areas and geologically unsuitable areas. Following the rough screens, five potential sites in the remaining area of sufficient size to accommodate a major landfill were identified for detailed screening. The proposed site ranked first among all sites considered.

The social benefits of adequate waste disposal methods and economic benefits of landfill disposal when compared to other methods demonstrate that the public need and associated costs for the proposed landfill facility outweigh the minimal environmental impacts and their associated costs.

C. Are there alternative projects which would offer more protection to the environment than the proposed facility without unduly curtailing nonenvironmental benefits?

The North Landfill will provide disposal for approximately 400,000 tons per year of solid waste. The waste stream consists of household garbage, trash, yard waste, construction debris, office waste, sewerage treatment plant sludge, whitegoods, medical waste, non-hazardous industrial waste, asbestos waste and commercial waste such as packing materials. The waste stream is generated by homes, apartments, businesses, industries, schools, medical facilities such as hospitals, state agencies, local governments, surrounding parishes, sewerage treatment facilities and two local universities.

The diversity of sources and complexity of the waste stream limit the range of alternative projects.

The City-Parish commissioned the firm of Camp, Dresser & McKee, Inc. in 1987 to prepare a comprehensive assessment and evaluation of all solid waste disposal alternative sites and available technologies for solid waste disposal. objective of the technology evaluation of resource recovery was to identify and assess for East Baton Rouge Parish's needs, the various technologies designed to optimize the ultimate use and disposal of solid waste. Technologies considered were landfill disposal, resource recovery, volume reduction and materials recovery. Mass burn, refuse-derived fuel (RDF), pyrolysis, wet RDF, multiple-hearth furnace, fluidized-bed combustion, suspension-fired waterwall, anaerobic digestion and composting technologies were evaluated for resource recovery systems. Baling and shredding were the volume reduction technologies considered for the Parish.

Materials recovery technology evaluated included source separation/separate collection, front end systems and back end systems. Source separation included user delivery systems as well as curbside collection. Front end systems evaluated were magnetic separation, rotation screens, vibrating screens, electroseparation, optical sorting and heavy media separation. Back end systems reviewed were magnetic separation and trommels.

In conjunction with the evaluation of resource recovery facilities, the potential for sale of energy to appropriate markets were investigated and analyzed. The study considered two forms of energy, steam and electricity. A resource recovery facility in Baton Rouge was determined to generate 30 to 35 MW of electricity of 300,000 to 400,000 pounds per hour of steam. Steam was evaluated as a guaranteed supply or limited supply with the user having a backup. Energy market criteria were developed and applied to all major fuel users as identified by DEQ's Air Quality Division. Twelve industries

were identified as potential energy markets in accordance with the criteria established. A materials recovery investigation identified five companies as potential markets for recovered materials.

The technologies reviewed for adaptation in East Baton Rouge Parish included various forms of mass burning, volume reduction and material recovery technology. The criteria by which the technologies were evaluated included proven technology, reliability, applicability to East Baton Rouge Parish's waste stream, environmental acceptability, market considerations and economics. Resource recovery technologies were also evaluated for qualified and reliable full-service contractors to design, construct and operate the system. The CDM report stated:

"Results indicated that a mass burn combustion system with water wall boilers and dry RDF systems was the most suitable technology for the Parish's requirements prior to economic and site evaluation. Mass burn systems and dry RDF systems employ a proven technology that has operated reliably burning waste streams similar to East Baton Rouge Parish's facilities throughout the United States and worldwide. facilities can be designed to address all environmental concerns and meet all applicable regulatory requirements. They can produce either steam or electricity efficiently at a cost consistent with a successful resource recovery program. Finally, there are a number of qualified and reputable full-service contractors offering these systems."

Volume reduction methods were judged unsuitable because the benefit derived from volume reduction does not justify the high capital, operating and maintenance costs associated with the two available systems.

Materials recovery technology as part of the overall program was found to have too much uncertainty related to costs and revenues. However, the report recommended the Parish develop a recycling effort by volunteer groups and private enterprise. Such efforts will be included as a part of the new landfill design and permit application.

The establishment of a regional landfill or transport of wastes to a landfill outside the Parish was found to be economically unfeasible and not readily implementable due to institutional constraints and limitations.

The CDM study investigated over 160 potential site areas for both landfilling and resource recovery technologies. A multistep process involving engineering, institutional and environmental factors was utilized to evaluate all potential sites. A listing of positive and negative siting criteria

identified favorable site/areas.

An evaluation matrix of weighted positive criteria was prepared to further evaluate and rank remaining sites for both landfill and resource recovery sites. The sites were ranked in accordance with environmental and implementation concerns.

After evaluation in the matrix, five landfill sites and six resource recovery sites were identified for further investigation. The Kaiser property site was subsequently ranked as the most favorable site after all environmental and implementation factors were considered.

A detailed transportation analysis to determine the effect on solid waste costs of alternative facility locations for both screened landfill sites and resource recovery sites were performed. The detailed economic analysis incorporated life cycle costs, and an economic sensitivity analysis was conducted. Sizing and redundancy were optimized and phasing considered with each alternative. Public versus private ownership was evaluated for the lease cost potential for the City-Parish.

The base case energy recovery facility (1350 tpd) was utilized in the analysis and the proposed Kaiser site property was utilized to represent the sanitary landfill option. The sanitary landfill alternatives are significantly less costly than an energy recovery facility. When transportation costs are included, the difference between the two alternatives narrows somewhat as the energy recovery facility can be located closer to the Parish's centroid of generation than the sanitary landfill.

The CDM report recommended landfilling as a technology and ranked the North Landfill (Kaiser property) site first. In order to reduce the impact of landfilling solid wastes, the City-Parish is currently developing a recycling program to reduce the amount of waste deposited in the landfill.

D. Are there alternative sites which would offer more protection to the environment than the proposed facility site without duly curtailing nonenvironmental benefits?

The 1982 Cox-Walker report was funded by the Louisiana Department of Environmental Quality, Solid Waste Division to assist the Parish in establishing an overall plan for long term solid waste disposal using landfill as the disposal method. The 1982 report detailed the results of a computer modeling effort to determine the optimum locations for the siting of a new City-Parish sanitary landfill. The selection criteria included transportation costs, population trends and other economic and demographic considerations. The model reviewed sites at one mile intervals within the parish and determined that one of the best potential locations for a new

City-Parish landfill would be in the northern part of the parish, near the existing Devil's Swamp Landfill.

The firm of Camp, Dresser & McKee (CDM) performed a comprehensive Solid Waste Plan for East Baton Rouge Parish in 1987. The study investigated potential site areas for both landfilling and resource recovery technologies. Forty-one potential landfill sites and 120 resource recovery sites were initially identified and eventually screened to a shorter list of five and six sites respectively. These two short lists were then subjected to a more extensive evaluation.

The report also investigated establishment of a regional landfill in the Parish serving surrounding Parishes and the feasibility and acceptability of transporting all solid waste out of the Parish to adjoining landfills with sufficient capacity.

The CDM report recommended the construction of a new landfill to meet the future needs of the Parish for solid waste disposal. The Kaiser site was rated by CDM the most favorable location for a new landfill.

The site was ranked the most advantageous location for a landfill considering flood potential, proximity to airports, proximity to urban development, proximity to water bodies (ground, surface, water quality and environmental resources), type of land utilization and environmentally sensitive areas. Consideration of land ownership (single owner), requirements (location and availability), geotechnical conditions, proximity to utilities, site access, site development and hydrologic considerations were also taken into account. The application of the above factors as positive and negative criteria effectively screened both landfill and resource recovery sites to those which were potentially acceptable. A further screening utilizing a weighted environmental matrix established the Kaiser site as the most favorable site in the Parish based on environmental considerations only.

In particular, the proposed site compared to other alternatives is to be located in an undeveloped rural and industrial zoned area. It is not in or near a wetlands area and has no environmentally sensitive features at the site or within a two mile radius. The site is contiguous to and on the same Kaiser property as a permitted industrial solid waste disposal site for Kaiser's red mud waste from spent bauxite. The location of this site has the least impact on existing and future land fuse of this site and the surrounding properties due to the existing 400 acre solid waste impoundment basins immediately adjacent to the proposed site, as well as the adjacent industrial and hazardous waste disposal facilities. The number of residences within a one-mile radius is minimal compared to other alternatives. The existing collection

to the Devil's Swamp Landfill will not be altered or disrupted, eliminating subsequent short term impact of traffic problems associated with re-routing. The ground water table is an estimated 30 feet below ground, which is substantially greater than the majority of other sites considered. The site was one of the few considered with a single ownership further ameliorating implementation concerns with obtaining the necessary land acreage. The overall transportation, construction and operational costs associated with the Kaiser site are considered the least costly of all alternatives considered.

The site has not been documented as habitat for any endangered species, such as the red cockeyed woodpecker, potentially found in the northeastern reaches of the parish. The terrain of the site contains no swamps, marshes or estuaries.

The site is beyond a radius of 10,000 feet from the Baton Rouge Metropolitan Airport and will be in compliance with Federal Aviation Administration requirements for airports providing service for jet aircraft. There are no sites of known historical or culturally significant interest documented within the confines of the Kaiser property or within one mile of the proposed site.

In summary, the proposed site survived a negative screening process which initially eliminated areas which were unsuitable for landfill development, then ranked first among five sites evaluated in detail and ranked on the basis of environmental considerations only and, finally, was judged the most favorable technology among virtually all recognized methods for dealing with solid waste disposal.

E. Are there mitigating measures which would offer more protection to the environment that the proposed facility without unduly curtailing nonenvironmental benefits.

Adverse environmental impacts at the site on air, surface and ground water will be avoided or mitigated by appropriate engineering design and operational considerations. Dust, odor, insect and rodent problems may arise from an improperly constructed or operated landfill. Roadways in the landfill site will be sprayed with water to minimize dust from traffic and earth moving equipment. Placement of daily cover over the wastes will minimize odors, fire, insects and rodent potential.

The landfill will be designed to present any contaminated surface runoff from leaving the site without proper treatment. A properly designed drainage system will segregate potentially contaminated from non-contaminated water. Drainage leading to Bayou Baton Rouge and the Mississippi River will receive an effluent discharge permit conforming to tertiary treatment standards.

Groundwater impacts from unlined disposal cells located in permeable soil deposits are a potential problem with landfills. Design safeguards will be incorporated into cell construction to block migration of contaminants through the waste cell lining. Wastes and waste constituents will be contained within secure disposal facilities lined with a 60 mil HDPE liner, three feet of recompacted clay and a minimum of three feet of natural clay liner with leachate collection, monitoring wells and a gas collection system.

Disposal areas are planned to be constructed in phases as the need for additional space arises. Individual disposal cells within each area will be used and then individually closed upon being filled to capacity, so that the active landfill area at any time will be kept to a minimum.

After cells reach capacity, the top and sides of the landfill (except the advancing face) will be capped with a two foot thick layer of recompacted clay to minimize the quantity of water percolating into the disposal area. The top of the clay cap will have a six inch soil layer which is seeded and fertilized to encourage vegetation growth. Vegetation aids in preventing erosion and reduces leachate production through evapotranspiration.

The leachate collection system will be constructed in phases as a component of cell construction. The system will collect leachate accumulated at the bottom of each cell and drain the waste liquid to a pump station which will then transport collected leachate to the wastewater treatment facility. Wastewater treatment will be at either the East Baton Rouge Parish North Sewerage Treatment Plant or at a facility constructed on the landfill site.

A groundwater monitoring system will be installed to verify the integrity of the containment and control structures. Together, these design features minimize the potential for adverse environmental impacts.

The required 200 foot buffer zone will consist primarily of bottom land hardwoods, providing an aesthetic and visual protective shield from Highway 61 and residences in the vicinity. Additional landscaping features will be planted as appropriate.

These mitigating measures and others will be carefully selected to comply with regulations and standards of the Louisiana Department of Environmental Quality and with good operating practices for solid waste disposal using the sanitary landfill method. The existing East Baton Rouge Parish solid waste landfill has progressively improved its operating practices and has now established a sound environmental record and has operated in a safe manner.

The proposed new site will be equipped with fire protection equipment and have immediate access to medical service personnel. The site operations will be carefully monitored and inspected by on-site operations staff. In addition, personnel from the Environmental Coordinator's office of the Department of Public Works will provide technical and administrative environmental reviews of landfill operations.

The site will be staffed with responsible, experienced personnel trained and equipped to function in their job related responsibilities in a safe and prudent manner. Appropriate employees will attend weekly training meetings to establish and reinforce safe working habits. The site will be fenced and guarded to prevent any unauthorized ingress into landfill properties. The site will have adequate equipment at all times to handle emergencies that may arise.

In summary, the City-Parish has outlined plans for development of the proposed landfill site which minimize the potential for adverse environmental impacts. The design and operation of the facility will meet or exceed standards issued by the Department of Environmental Quality and the impact on public health and the environment from operation of the proposed facility is not expected to be significant. For all of the reasons mentioned hereinabove, the planned design construction, operation and closure of the proposed landfill incorporate the best available control technology for this type of facility.



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

AUG 0 2 2006

CERTIFIED MAIL 7004 1160 0001 9952 5295

Agency Interest No. 31128 Permit No. P-0269 Activity No. PER20060001

Mr. Jorge M. Ferrer Department of Public Works City of Baton Rouge P. O. Box 1471 Baton Rouge, LA 70821-1471

East Baton Rouge Parish North Landfill Application RE: Administrative Completeness Determination and Public Notice for Publication

Dear Mr. Ferrer:

The Office of Environmental Services received your application for a solid waste permit modification on July 11, 2006. As of the date of this letter, the application, along with any additional information submitted to date, has been determined to be administratively complete and has been assigned to the Solid and Hazardous Waste Section, Group 1. Please note that the Department may require additional information if technical deficiencies are found at a later date.

Pursuant to LAC 33: I.1505.A.4, within 30 days after receipt of this letter of administrative completeness, the applicant shall publish a notice, provided by the Department, of the completeness determination in a major local newspaper of general circulation and submit proof of publication to the Department. Please publish the enclosed public notice once in The Advocate. The proof of publication should be mailed to Robert Nissen at this Office.

If you have any questions, please call me at (225) 219-3286.

Robert Nissen

Environmental Project Specialist III

Application Verification Group

RECEIVED

AUG 0 4 2006

ENVIRONMENTAL

RN/m

Sincerel

Enclosure

c: IO-SW

ENVIRONMENTAL SERVICES

: PO BOX 4313, BATON ROUGE, LA 70821-4313 P:225-219-3181 F:225-219-3309 WWW.DEQ.LOUISIANA.GOV

PUBLIC NOTICE LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ) CITY OF BATON ROUGE - EAST BATON ROUGE PARISH NORTH LANDFILL ADMINISTRATIVE COMPLETENESS DETERMINATION

The LDEQ, Office of Environmental Services, has reviewed a solid waste permit modification application from the City of Baton Rouge, Department of Public Works, P. O. Box 1471, Baton Rouge, LA 70821-1471 for the East Baton Rouge Parish North Landfill and determined that it is administratively complete. The application was received on July 11, 2006. The facility is located at 16003 Samuels Road - Zachary, East Baton Rouge Parish.

City of Baton Rouge - East Baton Rouge Parish North Landfill proposes to modify its permit to operate the North Landfill from 5:30 AM until 5:00 PM, Monday through Friday and 5:30 AM until 3:00PM on Saturday.

Inquiries or requests for additional information regarding this application should be directed to Robert Nissen, LDEQ, Environmental Assistance Division, P. O. Box 4313, Baton Rouge, LA 70821-4313 or at 225-219-3286.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at <a href="mailto:ma

Permit public notices can be viewed on the LDEQ Permits public Web page at www.deq.state.la.us/news/PubNotice/ and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.state.la.us/ldbc/listservpage/ldeq pn_listserv.htm.

All correspondence should specify AI Number 31128, Permit Number P-0269, and Activity Number PER20060001.

Department of Public Works



City of Baton Rouge Parish of East Baton Rouge

Post Office box 1471 Baton Rouge, Louisiana 70821-1471

Jorge M. Ferrer, P.E. **Environmental Coordinator**

Telephone (225) 389-5456 Fax (225) 389-5460

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

August 21, 2006

Mr. Robert L. Nissen

Application Verification Group Environmental Assistance Division Office of Environmental Services Department of Environmental Quality Post Office Box 4313 Baton Rouge, Louisiana 70821-4313

East Baton Rouge Parish North Landfill Application

Agency Interest No.: 31128 Permit Number:

P-0269

Activity Number:

PER20060001

Dear Mr. Nissen:

Enclosed, per your request, is the public notice for the East Baton Rouge Parish North Landfill. This was published in the local newspaper, The Advocate, on Friday, August 18, 2006.

Please let me know if I can be of further assistance to you.

Sincerely, orge M. Ferrer

Jorgé M. Ferrer, P.E.

Coordinator, Environmental and Landfill Affairs

JMF/cjp Enclosure

CC:

Mr. Peter Newkirk, P.E. Director of Public Works

Mr. Bryan Harmon, P.E. Deputy Director of Public Works

Ms. Linda Hunt, Assistant Director of Public Works

Mr. Shannon Dupont, P.E. IV DPW

Public Notices Permits Misc.

PUBLIC NOTICE

LOUISIANA DEPARTMENT
OF ENVIRONMENTAL
OUALITY (LDEO)
CITY OF BATON ROUGE
EAST BATON ROUGE PARISH
NORTH LANDFILL
ADMINISTRATIVE
COMPLETENESS
DETERMINATION
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Inquiries or requests for addi-tional information regarding this

tional information regarding this application should be directed to Robert Nissen, LDEO, Environmental Assistance Division, P. O. Box 4313, Baton Rouge, LA 70821-4313 or at 225-219-3286. Persons wishing to be included on the LDEO permit public notice mailing list or for other public participation, related questions should contact the Public Participation Group in writing at LDEO, P.O. Box 4313. Baton Rouge, LA 70821-4313, by email at maillistrequest@ideq.org or contact the email at <u>maillistre</u>.

<u>quest@ideq.org</u> or contact the
LDEQ Customer Service Center
at (225) 219-LDEQ (219-5337).

Permit public notices can be
viewed on the LDEQ Permits
public Web page at

public Web page at www.deq.state.la.us/news/PubNotice/ and general information related to the public participation in permitting activities can be viewed at least 100 members 100 members

viewed at www.deg.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEO permits public notice. List Server at http://www.dec.louisiase.com/page/ideq.gov/dec.louisiase.com/page/ideq.g

Number Activity PER20060001.

3388632-aug 18-1t

CAPITAL CITY PRESS

Publisher of THE ADVOCATE

PROOF OF PUBLICATION

The hereto attached notice was published in THE ADVOCATE, a daily newspaper of general circulation published in Baton Rouge, Louisiana, and the official Journal of the State of Louisiana, the City of Baton Rouge, and the Parish of East Baton Rouge, in the following issues:

08/18/06

Susan A. Bush. Public Notices Clerk

Sworn and subscribed before me by the person whose signature appears above:

August 18, 2006

Pegeen Singley, Notary Public, #66565 My Commission Expires: Indefinite Baton Rouge, Louisiana

PUBLIC NOTICE

PUBLIC NOTICE

LOUISIANA DEPARTMENT
OF ENVIRONMENTAL
OUALITY (LOEG)
CITY OF BATON ROUGE
EAST BATON ROUGE PARISH
NORTH LANDFILL
ADMINISTRATIVE
COMPLETENESS
DETERMINATION
The LDEQ. Office of Environmental Services, has reviewed a solid waste permit modification application from the City of Baton Rouge, Department of Public Works, P. O. Box 1471. Batin Rouge, LA 70821-1471 for the East Baton Rouge Parish North East Baton Rouge Parish.
City of Baton Rouge East

11. 2006. The facility is located at 18003 Samuels Road Zachary, East Baton Rouge Parlsh.

City of Baton Rouge East Baton Rouge Individual Information Pagarding this application should be directed to Robert Nissen, LDEO, Environmental Assistance Division, P. O. Box 4313, Baton Rouge, LA 70821-4313 or at 225-219-3286.

Persons wishing to be included on the LDEO permit public notice mailing list or for other public participation Group in writing at LDEO, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at mailistre-questions should contact the Public Participation Group in writing at LDEO, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at mailistre-questiones should contact the LDEO Customer Service Center at (225) 219-LDEO (219-5337).

Permit public notices can be viewed on the LDEO Permits public notices can be viewed on the LDEO Permits public or lateral to the public participation related to the public participation or lateral to the public participation or lateral the location of the LDEO permit public notices was a mail by subscribing to the LDEO permits public notice List Server at http://www.stato-laus/ldbc/listser/page/ldea_nn_listen/him.

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Page 10 permits public notice List Server at http://www.stato-laus/ldbc/listser/page/ldea_nn_listen/him.

Page 20060001.

Activity PER20060001. 3388632-aug 18-11

CITY PARISH PURCHASING

3388632

PO BOX 1471 **BATON ROUGE**

LA 70821



Department of Public Works

City of Baton Rouge Parish of East Baton Rouge

Post Office box 1471 Baton Rouge, Louisiana 70821-1471 Jorge M. Ferrer, P.E. Environmental Coordinator

Telephone (225) 389-5456 Fax (225) 389-5460

CERTIFIED - RETURN RECEIPT REQUESTED

September 21, 2006

Mr. Robert L. Nissen
Application Verification Group
Environmental Assistance Division
Office of Environmental Services
Department of Environmental Quality
Post Office Box 4313
Baton Rouge, Louisiana
70821-4313

Re: Amendment to Permit Modification Request for Change of Operating Hours East Baton Rouge Parish North Landfill A131128/D-033-2885/P-02691R1

Dear Mr. Nissen,

The City-Parish would like to have the ability to change the operating hours other than the proposed changes when extraordinary circumstances such as natural disasters, extended weekends involving holidays, and/or public events that require a short turnaround for the Solid Waste Contractor. In each case, LDEQ will be notified in writing of the change and reason(s) for such a change in the operating hours of the facility.

Mr. Nissen, please let me know if we can be of further assistance.

Sincerely,

Jorge M. Ferrer, P.E.

Coordinator of Environmental & Landfill Affairs

orge M. Ferrer

JMF:gkc



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

OCT 1 1 2006

CERTIFIED MAIL 7004 1160 0001 9949 8087 RETURN RECEIPT REQUESTED

Mr. Jorge M. Ferrer, P.E. Department of Public Works P.O. Box 1471 Baton Rouge, LA 70821

Re:

Request for Change of Operating Hours East Baton Rouge Parish North Landfill AI # 31128/ D-033-2885/ P-02691R1 East Baton Rouge Parish

Dear Mr. Ferrer,

The Waste Permits Division has performed the technical review of your submittal dated September 21, 2006, requesting to modify the Standard Permit (P-02691R1) to change the operating hours from 7am-5pm Monday-Friday and 7am-3pm on Saturday, to 5:30am-5pm Monday-Friday and 5:30am-3pm on Saturday.

Please submit six (6) bound copies of the complete document using the original submitted application and incorporating all previously accepted revisions into appropriated sections. Upon receipt of these copies, a final review will be conducted in order to insure that the document is acceptable for public review. Your updated application shall be submitted to this office within thirty (30) days of receipt of this letter. If upon review, the document is determined to be technically complete, you will be notified of this decision and the public review period will be scheduled.

Any approved Part I, II, or III revisions shall be incorporated into the document and typographical errors that have been included in the original document shall be corrected in the final permit document submitted to this office.

Please reference Agency Interest Number (AI-31128), Site Identification Number (D-033-2885), Permit Number (P-02691R1), and Permit Activity Number (PER20060001) on all future correspondence pertaining to this facility. If you have any questions concerning this matter, please contact Ms. Enjoli' Muse of the Solid Waste Permits Division at (225) 219-0968.

Sincerely

Chuck Carr Brown, Ph.D.

Assistant Secretary Waste Permits Division RECEIVED

OCT 13 2006

DPW ENVIRONMENTAL

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: PO BOX 4313, BATON ROUGE, LA 70821-4313 P:225-219-3181 F:225-219-3309 WWW.DEO.LOUISIANA.GOV